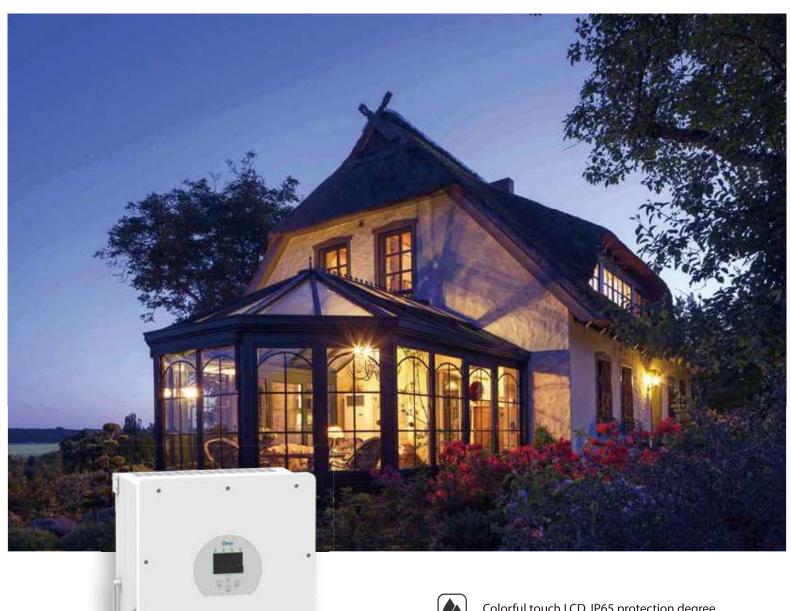
Hybrid Inverter

SUN- 12 / 14 / 16 K-SG01LP1-EU





Colorful touch LCD, IP65 protection degree



DC couple and AC couple to retrofit existing solar system



Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 290A



6 time periods for battery charging/discharging



Support storing energy from diesel generator



Technical Data _____ www.deyeinverter.com

Model	SUN-12K-SG01LP1-EU	SUN-14K-SG01LP1-EU	SUN-16K-SG01LP1-EU
Battery Data			
Battery Type	Lead-acid or Li-lon		
Battery Voltage Range (V)	40~60		
Max. Charging Current (A)	220	250	290
Max. Discharging Current (A)	220	250	290
UPS Power (W)	12000	14000	16000
External Temperature Sensor		Yes	
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-lon Battery	Self-adaption to BMS		
PV String Input Data		Self dadption to bivis	
Max. DC Input Power (W)	15600	18200	20800
Max. DC Input Voltage (V)	13000	500	20000
Start-up Voltage (V)	150		
MPPT Range (V)	150-425		
Rated DC Input Voltage (V)		370	
PV Input Current (A)	26+26	26+26+26	26+26+26
Max. PV ISC (A)	44+44	44+44+44	44+44+44
Number of MPPT / Strings per MPPT	2/2	3/2	3/2
AC Output Data			
Rated AC Output (W)	12000	14000	16000
AC Output Rated Current (A)	52.2	60.9	69.6
Max. Continuous AC Passthrough (A)	100		
Peak Power (off grid)	2 time of rated power, 5 S		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac (single phase)		
Grid Type	Single Phase		
DC injection current (mA)	<0.5%1n		
Backup Data			
Backup Power (W)	10000	12000	14000
Backup Rated Current (A)	43.5	52.2	60.9
Backup UPS		6ms Automatic switchover time	
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	99.90%		
,		33.3078	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection		
Output Over Voltage Protection	DC Type II/AC Type III		
Certifications and Standards		, i	
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
General Data			
Operating Temperature Range (°C)		-45~60°C, >45°C derating	
Cooling	Smart cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	51.5		
Size (mm)	464W×798.4H×300D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
·			
Warranty		5 years	
Features May Number of Parallel (PCS)		16	
Max. Number of Parallel (PCS)		16	

